

"Close combat, man to man, is plainly regarded as the real basis of combat" Carl Von Clausewitz

Dismounted Close Combat

23rd & 24th May 2001, The Hatton, London

A unique opportunity to learn from leading industry experts including:

Military Speakers:

- **Lieutenant Colonel Koos Meijer**, Program Leader Soldier Modernisation Programme, **Royal Netherlands Army**
- **Lieutenant Colonel Frits Van Dooren**, Senior Staff Officer. Department Operation Policy and Planning Combat Manoeuvre Training Centre, **Royal Netherlands Army**
- **Lieutenant Colonel Mende**, German Liaison Officer, HQ Infantry, **German Army**
- **Lieutenant Colonel Kenneth Wheeler**, Project Manager, STRICOM, PM TRADE – Live Training System, **US Army**
- **Peter Wallace**, Deputy Technology Program Manager, MOUT ACTD, **US Army**
- **KC Jones MBE**, WO i/c Urban Operations Training – Advisory Team, **British Army Training Estate East**
- **Major Greg Burton CD PPCLI**, Director of Land Requirements 5, Close Combat (Soldier Systems), **Department of National Defence, Canada**
- **Captain Coby Moran**, Project Officer, Integrated Infantry Combat System, **United States Marine Corps**
- **Mike Brown**, Program Manager- FIST, **DERA**
- **Tim Young**, Principle Marketing Advisor, **DERA**
- **Dr Pieter Nel**, Program Manager, African Warrior, **ARMSCOR**
- **Debra Stanislawski**, Global Issues Branch Chief, **Marine Corp Intelligence Activity**
- **Captain Erwin Dick**, Urban Intelligence Specialist, **Marine Corp Intelligence Activity**
- **Major Johan Benson**, Development Officer MOUT/FIBUA, **Royal Lifeguards**
- **George J Mordica II**, Combat Operations Analyst, Center for Army Lessons Learned (CALL), **US Army**

Industry speakers:

- **Danny Champion**, Operations Research Analyst, **TRADOC Analysis Analysis Centre- White Sands Missile Range**
- **Louis Fatale**, Physical Scientist, **US Army Engineer Research & Development Centre/ Topographic Engineering Centre**
- **Dr Paul Krause**, Physical Scientist/ Mathematician, **US Army Engineer Research & Development Centre/Topographic Engineering Centre**
- **Mary Hoffman**, Project Manager, **Battelle Memorial Institute**
- **Hein Jager**, Manager research group- Skin Protection and Risk Analysis, **TNO Defence Research**
- **Dr. Leslie Kramer**, Director and Engineering Fellow, **Lockheed Martin**
- **Jonathan Clegg**, Business Development Manager, **Motorola**
- **Jim Hitchcock**, Senior Engineer, **Booz Allen & Hamilton**
- **Jean-Marie Bodet**, Lithium-ion Project Manager, **SAFT**
- **Pierre-Marc Leroy**, European Sales Director, **SAFT**
- **Murray Fullerton**, Programme Manager, **British Aerospace**
- **Mark Tovey**, Business Development Manager, **Thales Optronics**
- **Robert McIntyre III**, Chief Operating Officer, **Simulation Technologies**
- **Victor Middleton**, Senior Consultant, **Simulation Technologies**

Sessionary chairs:

- **Dr Nick Stanbridge**, Senior Scientist, **CDA DERA**
- **Charles Sebesta**, Managing Director, **ElectBest**



Plus a half day interactive workshop



Supplying the Power to the Armed Forces

25th May 2001, The Hatton, London, In association with **SAFT**

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Day One 23rd May 2001

8.30 Registration & Coffee

9.00 **Chairman's Opening Remarks**
Dr. Nick Stanbridge, Senior Scientist, **CDA DERA**

URBAN COMBAT OPERATIONS FOR THE DISMOUNTED SOLDIER

9.10 **Lessons learnt from the JRTC focused rotation**
George J Mordica II, Combat Operations Analyst, Center for Army Lessons Learned (CALL), **US Army**

9.40 **C4I IN THE DISMOUNTED BATTLEFIELD**

- FIST project overview / current status
- C4I Objectives
- Trials approach
- Trials equipment
- Data collection
- Trials results

Mike Brown, Program Manager- FIST, **DERA**

10.20 **DEVELOPING DISMOUNTED CLOSE COMBAT FROM A GERMAN PERSPECTIVE**

- Current status of infantry Dismounted Close Combat capabilities
- Areas identified and targeted for improvement
- Current programme progress and lessons learned
- Perceiving the soldier as a platform – the most numerous in the inventory

Lieutenant Colonel Mende, German Liaison Officer, HQ Infantry, **German Army**

11.00 Morning Coffee

11.20 **AFRICAN WARRIOR ADVANCES**

- Functional areas
- Systems borders
- COTS/ MCOTS procurement
- Present and future developments

Dr Pieter B Nel, Program Manager, African Warrior, **ARMSCOR**

DISMOUNTED CLOSE COMBAT FROM THE PERSPECTIVE OF THE ROYAL NETHERLANDS ARMY

12.00 **The Dismounted Soldier and the future**

- Infantry guidelines and training
- Equipment currently available and planned for the future
- Development of tactics
- Training how to fight in an urban environment

Lieutenant Colonel Koos Meijer, Program Leader Soldier Modernisation Programme, **Royal Netherlands Army**

Lieutenant Colonel Frits Van Dooren, Senior Staff Officer, Department Operation Policy and Planning Combat Manoeuvre Training Centre, **Royal Netherlands Army**

12.40 Lunch

CASE STUDY: THE BRITISH ARMY AND DISMOUNTED CLOSE COMBAT

1.40 **Training to fight in built up areas**

- Improving operational effectiveness of soldiers
- Fighting In Built Up Areas (FIBUA)
- Acquiring and using advanced technologies
- Tactics, Techniques and procedures (TTPs)
- Lessons learnt from most recent experiments

KC Jones MBE, WO i/c Urban Operations Training – Advisory Team, **British Army Training Estate East**

UNITED STATES MARINE CORP AND URBAN CONFLICT

2.20 **Intelligence Preparation of the Battlefield**

- Defining the Urban Environment
- Urban Intelligence Challenges
- Future Concepts and issues

Debra Stanislawski, Global Issues Branch Chief, **Marine Corp Intelligence Activity**
Captain Erwin Dick, Urban Intelligence Specialist, **Marine Corp Intelligence Activity**

THE EFFECTS OF VEGETATION ON DISMOUNTED INFANTRY OPERATIONS

3.00 **The effects of terrain and vegetation on combat effectiveness**

- Prediction of dismounted Line Of Sight (LOS) conditions
- Identifying geotypical vegetation density zones (biomes)
- Determining accurate LOS in various biomes using curve-fitting techniques
- Provide model developers with a tangible mechanism to predict LOS in vegetated areas

Danny Champion, Operations Research Analyst, **TRAC**
Louis Fatale, Physical Scientist, **US Army Engineer Research & Development Centre/ Topographic Engineering Centre**

Dr Paul Krause, Physical Scientist/ Mathematician, **US Army Engineer Research & Development Centre/ Topographic Engineering Centre**

3.40 Afternoon Tea

CANADIAN ADVANCES

4.00 **The Canadian Integrated Soldier System Platform**

- The importance of the individual soldier as a fighting force
- An overview of the Canadian programme – key stages reached and lessons learned
- The ergonomics of soldier digitisation
- Advances in sensor technology to enhance soldier lethality
- A look into the future – projected enhancements to the current programme

Major Greg Burton CD PPCLI, Director of Land Requirements 5, Close Combat (Soldier Systems), **Department of National Defence, Canada**

RESPIRATORY PROTECTION FOR THE SOLDIER

4.30 **Breathing to survive**

- The development of respiratory equipment for the 21st century
- Enabling the soldier to fight in adverse conditions
- Biological protection
- Future NBC developments for the infantryman

Hein Jager, Manager research group- Skin Protection and Risk Analysis, **TNO Defence Research**

TECHNOLOGY DEMONSTRATORS

5.00 **An evaluation of the FIST TD – lessons learned**

- The challenge – producing hardware suitable for user trials
- A systematic approach to resolving future infantry needs
- Packaging the system onto the user
- The mechanics of user interactions with the man-machine interface (MMI)
- A formal systems engineering approach

Mark Tovey, Business Development Manager, **Thales Optonics**

5.30 **Chairman's Closing Remarks and Close of Day One**

5.40 **Drinks reception for delegates and speakers**



Day Two 24th May 2001

8.30 Re-registration and Coffee

9.00 **Chairman's Opening Remarks**
Charles Sebesta, Managing Director, **ElectBest**

LETHALITY AND SURVIVABILITY

9.10 **MOUT ACTD Military Operations in Urban Terrain Advanced Concept Technology Demonstration**

- Identifying, investigating and transitioning commercial/government off the shelf systems technology candidates
- Deciding what candidates best meet operational user determined requirements
- Testing weapons for the dismounted soldier
- Case study: Testing the Simon Breaching Launcher System

Peter Wallace, Deputy Technology Program Manager, MOUT ACTD, **US Army**

DISMOUNTED CLOSE COMBAT ROBOTICS

9.40 **DERA robotics in the battlefield**

- Problems associated with Close Combat
- Close Combat missions and RCV requirements
- DERA robotics
- Autonomous Control Research
- Advancement of Command & Control
- RCV concepts
- Conclusions and questions

Tim Young, Principle Marketing Advisor, **DERA**

CASE STUDY

10.20 **Training Devices for the US Army**

- Training and training simulators for Dismounted Close Combat
- MOUT instrumentation
- How modern technology is used
- Future training devices

Lieutenant Colonel Kenneth Wheeler, Project Manager, STRICOM, PM TRADE – Live Training System, **US Army**

11.00 Morning Coffee

THE SWEDISH APPROACH TO DISMOUNTED CLOSE COMBAT

11.20 **Fighting in Built Up Areas (FIBUA) and MOUT exercises**

- The Swedish Dismounted Soldier
- The Swedish concept of MOUT
- Training and tactics
- Future concepts
- Lessons learnt from exercises
- Urban warfare and the Dismounted soldier should it happen again

Major Johan Benson, Development Officer MOUT/FIBUA, **Royal Lifeguards**

FROM RIFLEMAN TO WARRIOR SYSTEM

12.00 **The evolution of the Dismounted Close Combatant**

- The role of the Dismounted Close Combatant prior to the 1990's
- The concept of a soldier as a system
- Emphasis on joint capabilities
- The future role

Robert McIntyre III, Chief Operating Officer, **Simulation Technologies**
Victor Middleton, Senior Consultant, **Simulation Technologies**

12.40 Lunch

1.40 **SYSTEM ANALYSIS OF THE DISMOUNTED INFANTRY Operational Capabilities and Vignette Development for the Dismounted Infantry**

- Analysis methodology in support of the US Army Future Warrior Architecture and US Marine Corps Integrated Infantry Combat System programs
 - Identifying dismounted infantry requirements for 2010 and beyond
 - Defining crucial capability elements: Mobility, Lethality, Survivability, Command, Control, Communications, Computer and Intelligence (C4I), Sustainment and Training
 - Determining the relationship between equipment, vignette tasks and capabilities
 - Capabilities and vignette development as the framework for modelling and simulation for technology analyses
- Mary Hoffman**, Project Manager, Battelle **Memorial Institute**
Captain Coby Moran, Project Officer, Integrated Infantry Combat System, **United States Marine Corps**

2.20 **GIVING THE FORCES THE POWER SAFT and the batteries of the future**

- Supplying a range of products to all forms of military equipment
 - Powering the dismounted soldier – portable batteries
 - Requirements of a military battery
 - Future battery developments – the Lithium ion
- Jean-Marie Bodet**, Lithium-ion Project Manager, **SAFT**
Pierre-Marc Leroy, European Sales Director, **SAFT**

3.00 **EXTENDING MISSILE AND SENSING PERFORMANCE USING ULTRA CAPACITORS**
Dr. Leslie Kramer, Director and Engineering Fellow, **Lockheed Martin**

3.40 Afternoon Tea

SOLDIER MODERNISATION – AN INTERNATIONAL PERSPECTIVE

4.00 **BAE Systems and the development of a 21st Century Infantryman**

- Programme status worldwide
- Problems with interoperability between national soldier systems
- What FIST offers the modern day soldier
- The reality of modularity and acquisition issues
- Industrial participation in Soldier Modernisation programmes

Murray Fullerton, Programme Manager Soldier Modernisation, **BAE Systems**

4.30 **COMBAT ID FOR THE DISMOUNTED SOLDIER Individual Combat IDentification System (ICIDS, formerly CIDDS)**

- ICIDS Operation and Description
 - Key performance parameters
 - How operational issues influenced the system design
 - Results of developmental testing
 - Relationship between ICIDS and other CID and TES systems
- Jonathan Clegg**, Business Development Manager, **Motorola**

5.00 **SUPPORTING THE DISMOUNTED INFANTRY Obtaining, analysing and communicating intelligence quickly and effectively**

- Command centre design and integration
- Design support systems – solving the information paradox
- Communications support to operations other than war – MOOTW

Jim Hitchcock, Senior Engineer, **Booz Allen & Hamilton**

5.30 **Chairman's Closing Remarks and Close of Conference**

Workshop 25th May 2001

Supplying the Power to the Armed Forces

25th May 2001, The Hatton, London

In association with:



THE BATTERY COMPANY



This workshop will outline how the battery power requirements of the modern dismounted combatant are met and sustained in all fighting environments

8.30 Registration & Coffee

9.00 SAFT and the range of batteries available

- Communications equipment
- GPS
- Night Vision goggles
- Sonobuoys
- Location devices
- Missile Systems

9.45 Battery Packs and Cells

- The forefront of innovative product development
- Continual improving performance, quality and reliability

10.30 Introducing the New Lithium ion power source

- Technologies to offer enhanced lithium technologies
- Meeting demanding military specifications

11.15 Morning Coffee

11.30 Lithium ion battery unique specifications

- Capacity over 4.5Ah
- Power up to 4C
- Temperature performance below -30C

12.00 The Dismounted Soldier and his unique needs

- High energy density
- Wide temperature range
- Good charge retention
- Long cycle life

12.30 Close of workshop

About your workshop leader

Pierre-Marc Leroy, European Sales Director, is a graduate of ESTACA, Paris, where he obtained a degree in Engineering. This was followed by a further accreditation from the International Chamber of Commerce (ICI). He has worked extensively in the oil, chemical and aerospace sectors before joining SAFT in 1995.

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Dismounted Close Combat

23rd & 24th May 2001, The Hatton, London

Dear Defence Executive

I am delighted to present you with the finalised programme for SMi's **Dismounted Close Combat** conference. Attending this highly topical event will enable you to study the recent developments in the Future Integrated Soldier Technology and the dismounted battlefield.

This truly international conference enables you to hear first hand experiences from key military and industry experts including:

- **Lieutenant Colonel Koos Meijer**, Program Leader Soldier Modernisation Programme, **Royal Netherlands Army**
- **Lieutenant Colonel Mende**, German Liaison Officer, HQ Infantry, **German Army**
- **Lieutenant Colonel Kenneth Wheeler**, Project Manager, STRICOM, PM TRADE – Live Training System, **US Army**
- **Mike Brown**, Program Manager- FIST, **DERA**
- **Major Greg Burton CD PPCLI**, Director of Land Requirements 5, Close Combat (Soldier Systems), **Department of National Defence, Canada**
- **Dr Pieter Nel**, Program Manager, African Warrior, **ARMSCOR**

The presentations will focus on analysing the current doctrine regarding the dismounted close combat and the development of 21st Century Infantrymen. Particular attention will also be given to the following issues:

- C4I in the Dismounted Battlefield
- Developing Dismounted Close Combat from a German perspective
- African Warrior Advances
- Dismounted Close Combat from the Perspective of the Royal Netherlands Army
- Training Devices for the US Army
- The Canadian Integrated Soldier System Platform

If you are involved in any aspect of dismounted close combat you can not afford to miss this highly topical and timely event. This is your chance to meet the key figures in this field and discuss current and anticipated future developments.

I look forward to seeing you in London in May.

Yours faithfully



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